

THE TECH

VOL. XXXIII. NO. 50.

BOSTON, MASS., WEDNESDAY, OCTOBER 15, 1913.

PRICE TWO CENTS

PI DELTA EPSILON EDITORIAL CONTEST

**Opportunity Offered To Get On
Editorial Staff of
THE TECH.**

The editorial contest which the Pi Delta Epsilon journalistic society conducted last year was so much of a success that the same plan is to be adopted this year. The object of this contest is to reach men who possess literary ability, but who have not come out for the paper. The men submit editorials for a number of weeks, sometimes wholly original, and sometimes with subjects suggested by Pi Delta Epsilon, and the winner is chosen for originality, power of presentation, and general breadth of view. Last year the contest was of extreme interest, the editorials submitted being in many cases superior to those run by the regular staff, and the competition being so close that the judges were a week over time in announcing their decision.

The man who gets the greatest number of editorials accepted wins the contest, and a silver loving-cup is given as a prize.

It is hoped that many men will come out this year. The problem which an editor faces is not easy, but it is one of absorbing interest and fascinating variety; and this contest, by offering an opportunity to do the work of a regular staff editor, without actually assuming his responsibilities, is one which no Tech man can afford to miss.

The first editorial of the present contest will be due next Monday. The conditions follow:—

1. All editorials must have the name, class and address of its writer on each page.

2. Each editorial must be addressed to Pi Delta Epsilon, Contest Committee and left at the Cage or in the upper TECH office by 5 o'clock of the day on which it is due.

3. Each contestant must have written on at least seventy-five per cent of the subjects to qualify, and more credit will be allowed the contestant who writes on all subjects.

4. Contestants shall use their own judgment as to style and way of handling each subject, but shall refer to the editorials columns of THE TECH for the proper length.

(Continued on page 2.)

FRESHMAN DRILL

The representatives of Jacob Reed's Sons, the contractors for uniforms, will be in the Armory today, Wednesday, October 15th, during drill hours, to take final orders and measures for uniforms. This will be the final opportunity to be measured, and all those who do not attend to the matter at that time will be held strictly responsible for the neglect.

Edwin T. Cole,
Major, U. S. Army,
Professor Military Science.

MECHANICS TO HOLD SMOKER NEXT WEEK

**M. E. Society To Welcome New Men
Of Courses II and X Next
Wednesday.**

On Wednesday evening, Oct. 22, at 8.00, the members of the Mechanical Engineering Society will hold a smoker at the Union as a reception to the members of Courses II and X, the purpose of which will be to start a "pull together" spirit among all the men particularly interested in Mechanical Engineering, and to foster a feeling of good fellowship among present and future members.

It is hoped that, more than in the past, the second and third year men will avail themselves of the opportunity to be helped in their future work by this society, and they are particularly invited to be present at this meeting so that they may get an idea of the advantages to be gained through such an organization.

The program for the evening will be announced later, but it is certain that there will be some good talks by members of the Mechanical Engineering faculty and others.

Throughout the year there will be a series of lectures and excursions to factories and manufacturing establishments. This program is intended to supplement the different courses given in the Institute and to give the men new and practical ideas which cannot be obtained at school.

This reception is to be informal with free "smokes" and "cats" and a large crowd is looked for.

COSMOPOLITAN CLUB

**Business Meeting Today—New Men
To Be Appointed.**

A business meeting of the Cosmopolitan Club will be held in one of the small rooms of the Union at 5 P. M. today. Nominations for new members are due at this time, and other important business will probably be considered. The officers are anxious to have a large attendance in order to ensure a good start of this year's business. They believe that the success of the activities for the whole season depends on the work done at this time.

CHINESE CLUB

The Chinese Club held a business meeting in the Union last Saturday. The following officers were elected to serve for the ensuing year: President, C. S. Hsin; Vice-President, T. K. Yuan; Secretary, H. Wu; Chinese Secretary, C. C. Tsing; Treasurer, T. Yuen.

JUNIOR BALLOTS READY

The ballots for the Junior Class elections have been printed and may be obtained at the Cage today. They must be returned October 21, but the ballots of those who have not paid their class dues before that date will be void.

ANNUAL FALL HANDICAP MEET NEXT SATURDAY

**Freshmen-Sophomore Sprint Events
Centre of Present
Interest.**

Next Saturday the Annual Fall Handicap Meet will be held at Tech Field at Brookline. This meet is of especial interest as it affords the first opportunity to compare the Freshmen with the other classes, especially the Sophomores. From the showing here made it will be possible to judge the probable results of the Field Day relay race.

The Meet is an especial boon to the newer men for the more experienced men will be back near the scratch line. This advantage should so balance up the different abilities that close finishes will feature the day. So far not many upper-classmen have been out and the real struggle will be between the two lower classes.

There will be a Cross-Country Run at Melrose next Saturday, and for this reason the longer distance events will probably be omitted from the program of the Meet.

Today the Cross-Country candidates will leave Back Bay at 4.07 for a trip over the regular Tech course which starts at Highland and ends at the Field.

RECEPTION AT UNION

Catholic Club Gives Dinner and Reception to Tech Men.

This evening at the Union the Catholic Club will hold a reception and dinner to all those interested in its work. The Catholic members of the Class of 1917 are especially invited to attend. Dean Burton and Father Scanlan, the spiritual director, will talk about the Club.

The purpose of the business meeting, which will be held immediately after the dinner, will be to elect a representative from the Class of 1915 and also from the entering Class of 1917 to the executive board. Tickets may be obtained from any of the officers at 25 cents.

HANDBOOKS READY

Secretary Talbot of the T. C. A. wishes to announce that the handbooks, popularly known as the "bibles," have come and are ready for distribution to the Freshmen advisors.

1916 LOSER PLAYER

The injury received by George H. Petit '16 in the Wellesley High game last Monday will probably result in a serious loss to the Sophomore team. He played in the backfield and was a valuable asset to the 1916 team. His injury was serious sprain in the knee, which will probably keep him out of the game for the rest of the season.

SHOW ORCHESTRA HOLDS TRY-OUTS

**Frank L. Serles To Be Conductor
At This Year's Show
Performance.**

Yesterday the Tech Show orchestra had try-outs at the Union. Many of last year's men were back, including L. B. Miller, D. L. Patten, C. M. Fiske, H. L. Foster, S. M. Ellsworth, L. A. Holmes, and R. Welles. Besides this there were some new men out, although there were not as many as there probably would have been had the weather been less inclement. The new men who are out and trying for positions are A. Tonry, W. G. Whitman, S. L. Chisholm, L. I. Daurer, O. Smith and E. Freeman. The try-outs will be continued next Tuesday and the management desires all candidates to come and bring their instruments.

This year the orchestra will participate in half a dozen concerts in addition to the regular Tech Show. As regards the latter this year, the orchestra will have a Student Conductor in Mr. Frank L. Serles, who has led the orchestra in Williams College for two years, during which time four shows were staged. He has done a great deal of professional orchestra work and wrote some music for last year's show. Besides this he was of very material aid in the orchestration of last year's show, and is an accomplished musician, playing several different instruments with great skill.

Hereafter rehearsals will come every Tuesday at 5 o'clock.

WEATHER

Fair, with brisk westerly winds.

CALENDAR

Wednesday, October 15, 1913.

4.00—1917 Relay Practice at Field.
4.00—1917 Football, practice at Field.
4.00—1917 Tug-of-War, practice at Gym.
4.00—1916 Relay, practice at Field.
4.00—1916 Football, practice at Oval.
4.00—1916 Tug-of-War, practice at Gym.
4.07—Cross Country—Back Bay Station.
5.00—Sophomore Class Ballots—Cage.
5.00—Cosmopolitan Club—Union.
5.00—Glee Club—Union.
6.00—Catholic Club Reception—Union.

Thursday, October 16, 1913.

1.30—T. C. A. Talk—Union.
2.00—Electrical Engineering Trip—Lincoln Power House—Boston Elevated—Leave Lowell Building.

The Sophomore and Freshmen came out even Columbus Day. How about Field Day!

The editorial contest is about to start.

CATHOLIC CLUB MEETING TONIGHT 6.00 P. M.

THE TECH

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WEDNESDAY, OCTOBER 15, 1913

The appearance of a feminine name upon the 1915 ballot is a matter of deeper significance than an outsider might be inclined to suppose. The small number of fair co-eds among us has always made their exact status a matter of doubt, and one of the standard near-smart sayings of the Tech man is that he chose a co-educational college by preference. We have reason to believe, however, that women students at Tech are regarded by our sixteen hundred-odd lords of creation with an amount of deference and respect which is lacking in many co-educational colleges, and although the respect in this particular instance has cropped out in an unexpected manner, still we cannot but feel that an honest tribute has been paid to the esteem in which our co-eds are held.

The Tech girl is no ordinary girl. To come to a school where men so largely predominate, where the work is admittedly so extremely difficult, and to do so with the success which has attended the efforts of our co-eds, is indicative of a mental and moral makeup with which few young women are endowed. We shall be glad if the advantages of having such makeups in our midst can be more widely diffused than has been the custom—if more room can be made in Tech life for the Tech girl.

EDITORIAL CONTEST

(Continued from page 1.)

5. Two subjects will be given out weekly during the first period of the contest, the first of which will be due on Tuesdays, and the second on Fridays. The subject for the editorial due on Tuesday will be published Saturday, and the second on Wednesday.

6. The information upon which editorials are based may be obtained from any source.

7. The manuscript of the editorials must be neat and present a good appearance.

WRESTLING TEAM GYM FOR PRACTICE

Excellent Showing Made By Men—
Morse '16 Elected Assistant
Manager.

In an effort to make an even better team than that of last year, the Wrestling Team has been practising every day at the Gym for the past two weeks. Coach Kelley is exceedingly pleased with the outlook. But one man of last year's team has been lost by graduation, Saier of the 115-pound class. All the more experienced men are showing up in fine form, according to the coach; and of the new men, Leslie '14 in the heavy-weight class and Goodell '15 and Morse '16 in the middle-weight class are doing exceptionally well.

The negotiations carried on two weeks ago with several of the New England colleges have resulted in the heads of the various wrestling teams considering the formation of a New England Collegiate Wrestling Association. If this is carried out Tech will have matches with practically all the New England colleges. So far several dates have been made with the clubs around Boston. Coach Kelly is anxious to have as many matches as possible and for this reason would like the men to keep on the lookout for any possible engagements.

The proposed project for putting wrestling on at Field Day has met with serious objections, and for this reason and on account of lack of preparation, nothing will be done this fall.

KEROSENE AS MOTOR FUEL

Some remarkable results have been recently attained in the use of kerosene as motor fuel. The chief difficulty which has met previous attempts along this line is the fact that kerosene unlike gasoline, which vaporizes readily upon being sprayed into the air, requires considerable heat for its complete vaporization, a necessary condition for the efficient working of the kerosene motor. With the introduction of a special carburettor designed to be heated with the exhaust from the engine the successful vaporization of the kerosene may be accomplished, and as kerosene has as great a fuel value as gasoline it may rival the latter as a fuel for our future automobiles. In order to start these engines the carburettor is heated electrically if the engine is run on gasoline until the exhaust becomes warmed up. The lubricating value of kerosene is another factor in favor of its use. A kerosene burning car which was entered in the Indiana-Pacific tour showed a high efficiency test.

FOUND ARTICLES

Articles enumerated below have been found. Owners of the same may obtain them at the office of the Supt. Bldgs & Power, 26 Trinity Pl.:

- 3 Umbrellas.
- 1 Pair Gloves.
- 3 Note books.
- 1 Laboratory Coat.
- 4 Books.

Signed A. S. Smith,
Supt. Bldgs. & Power.

The Senior-Election, with a large number of candidates, ought to be interesting.

The Tech Show orchestra is now being organized.

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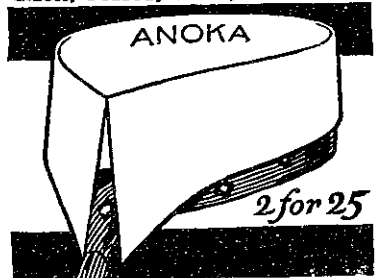
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REV. MR. J. A. RICHARDS
NEXT T. C. A. SPEAKER

Topic To Be "Spirit of Adventure"—
Freshmen Advisors Can Get
Handbooks Now.

After having made such an excellent start Thursday noon, the T. C. A. is ready to continue the good work. For next Thursday noon, the officers of the T. C. A. have secured the Rev. Mr. James Austin Richards pastor of the Mt. Vernon Congregational Church.

Mr. Richards has chosen for the subject of his talk, "The Spirit of Adventure," and judging by the topic alone, the second T. C. A. talk of the year promises to be a very interesting one, and it will undoubtedly draw as large a crowd of men as did last Thursday's talk. The attendance last Thursday was very good, and was so large that the T. C. A. feels that an admirable start was made last year. The association earnestly hopes that the students will continue to co-operate with the officers and make every successive meeting a bigger and better one.

The General Secretary, Mr. L. R. Talbot, wishes to announce that the remaining copies of the "Tech Bible," or the little handbook, are ready for distribution among the Freshmen advisors, and that the men entitled to the booklet are requested to call at the T. C. A. office in Eng. B. for them. Any new students who have not yet received copies of the book are also reminded that by calling at the office of the Association, they can also obtain the much desired "bible."

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STUDENTS

PATRONIZE

OUR ADVERTISERS

ENGINEERING AND SCIENTIFIC NOTES

The theory of the noise of thunder for a long time in vogue among scientists is that the concussion and the violent sound waves were caused by instantaneous rushing-back of the air into the temporary vacuum produced by the passage of the electric spark. If such is the only cause, the intensity of the noise, calculated from energy principles, seems excessively large. To overcome this difficulty a new theory has been proposed. It is that the thunder is the result of the intense heating of the gases of the atmosphere, especially of the water vapor, so that in reality a violent steam explosion is produced along the path of electric discharge giving rise to sound waves of great intensity.

Experimental evidence which tends to support this theory has been ingeniously carried on by Trowbridge. An electric spark of a certain length, say three inches, was passed between the familiar discharge balls of an induction coil and the intensity of the sound measured with suitable instruments. The spark balls were then covered with water-soaked cotton and the spark again passed which was accompanied with a more intense noise than formerly, showing that thunder is probably produced by an explosion as well as a rushing back of the atmosphere. The continued "rolling" of thunder is, of course, caused by the echo from surrounding hills, etc. The writer was surprised to find that far out to sea, where such reflecting walls are to a large degree absent, the thunder usually consists of but a single "clap" to accompany each flash of lightning.

The Geological Survey is making a study of the volume and character of the flow of streams at the following gaging stations: Connecticut River at Sunderland; Deerfield River at Hoosac Tunnel, Deerfield River near Charlemont, Deerfield River at Shelburne Falls, Housatonic River at Great Barrington, Quaboag River at West Brimfield, Swift River at West Ware, Ware River at Ware, West Branch of Farmington River at New Boston, Ware River at Gibbs Crossing, Westfield River (Middle Branch) at Goss Heights, and Westfield River at Knightville. This work is being done in co-operation with the State. At these gaging stations the height or stage of the rivers is determined each day by local observers, and measurements of the discharge of the streams are made by engineers of the Survey. From these data the quantity of water flowing past the stations is determined. In Massachusetts these hydrometric data are of use principally in the design, construction and maintenance of power plants and in studies of municipal water supplies, though all data relating to stream flow are valuable for general statistical and comparative purposes.

The investigations of surface water by the Geological Survey in Massachusetts are being made under the direction of C. C. Covert, district Engineer, by C. H. Pierce, assistant engineer. The district office is in the Federal Building, Albany, N. Y.

FACULTY NOTICE.

Second Year—Physics Recitation—
 Course V.

Recitation for Course V is transferred from 26 Rogers to 21 Eng. A, beginning October 15th.

Walter Humphreys,
 Register.

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